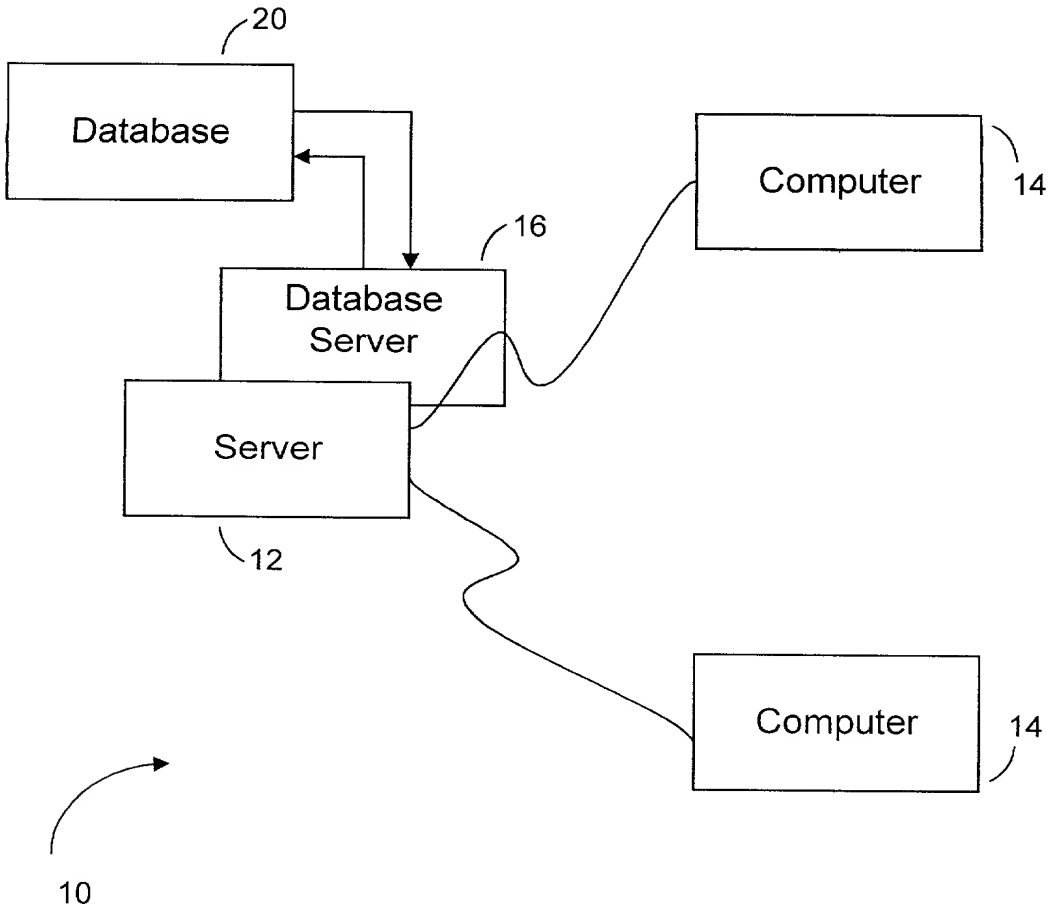

20
Database
Computer
14
16
Database
Server
Server
12
Computer
14
10

FIG. 1

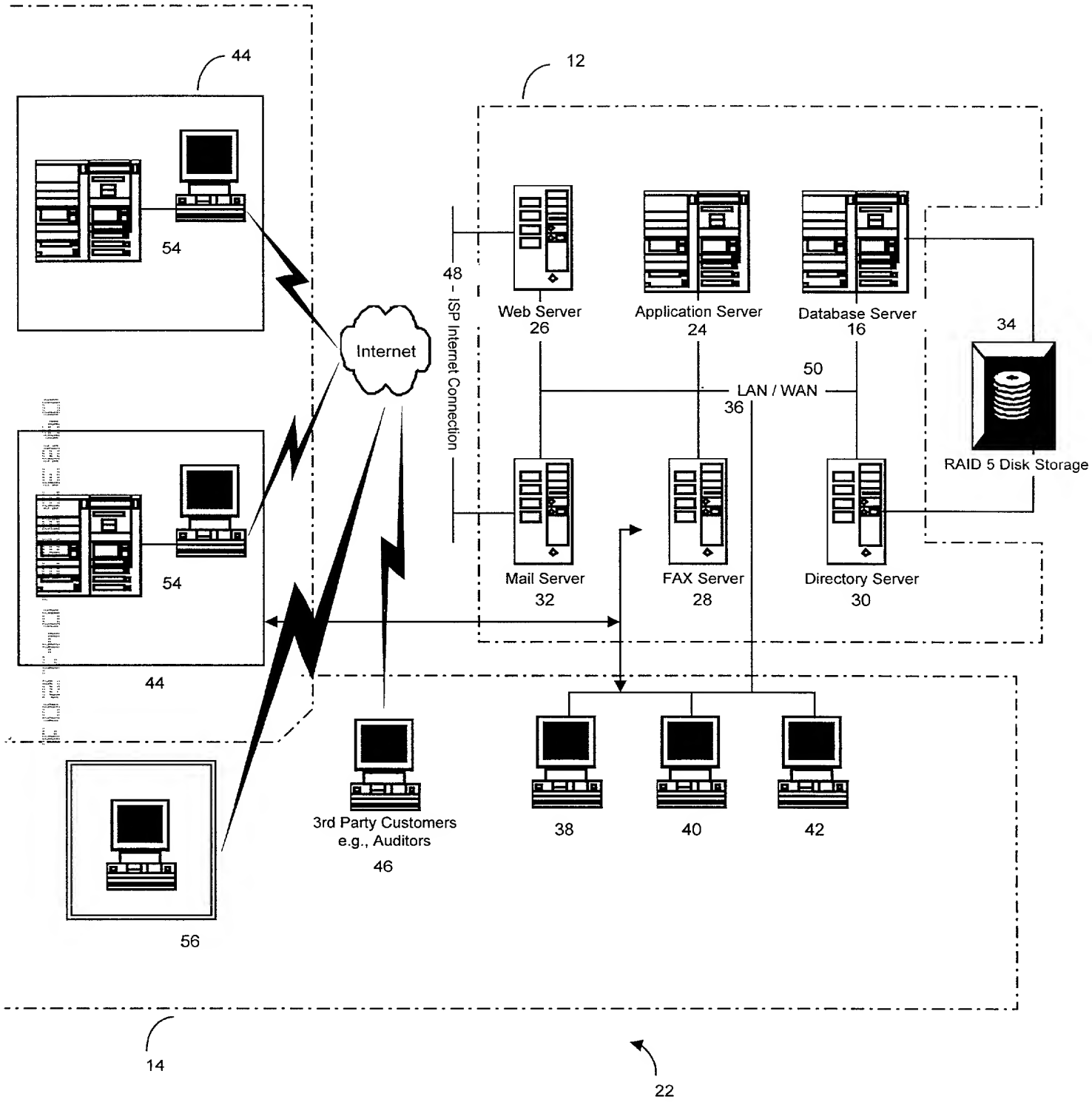
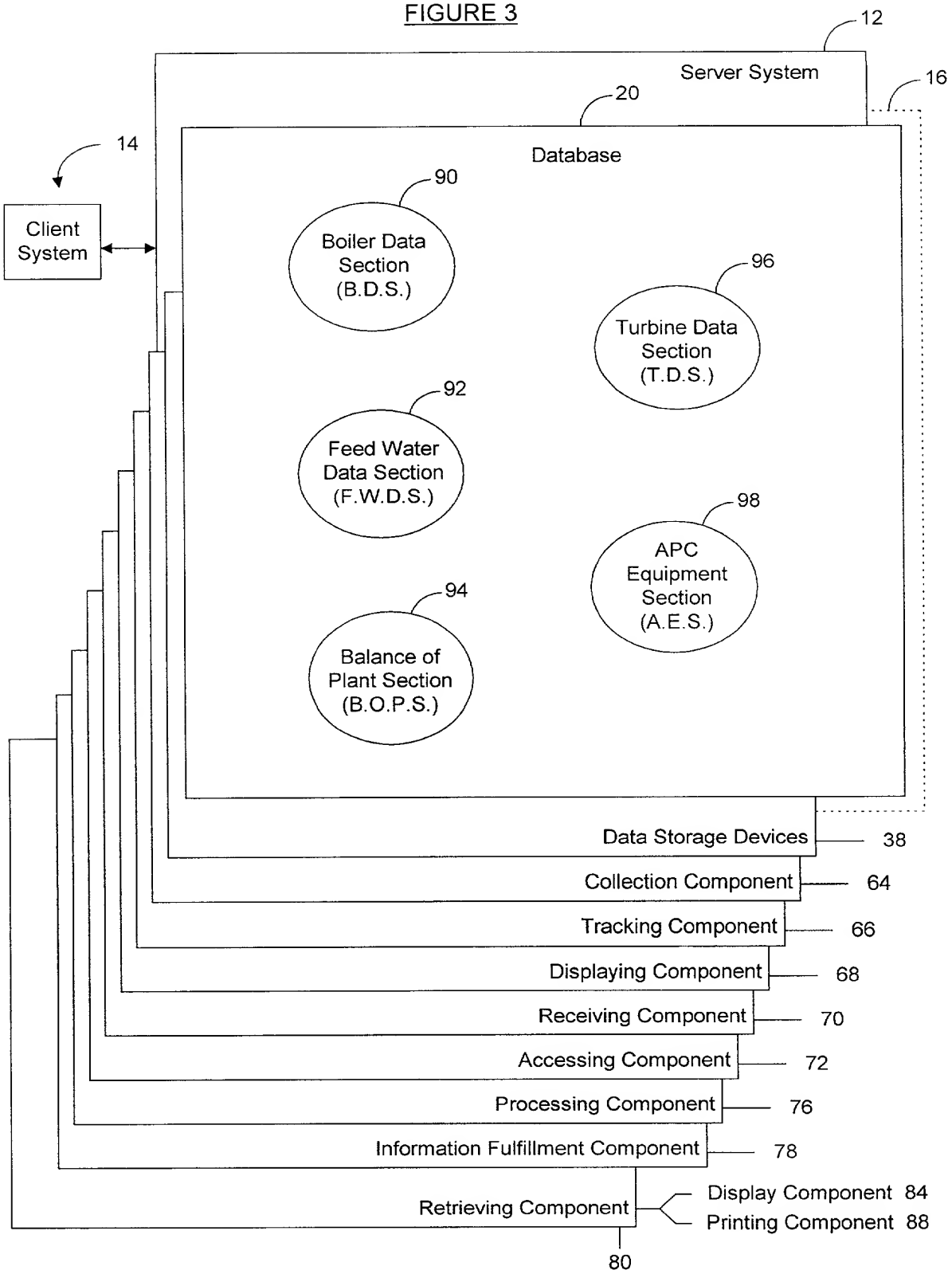

44
12
54
48 - ISP Internet Connection
Web Server
26
Application Server
24
Database Server
16
34
Internet
50
LAN / WAN
36
RAID 5 Disk Storage
54
Mail Server
32
FAX Server
28
Directory Server
30
44
3rd Party Customers
e.g., Auditors
46
38
40
42
56
14
22

FIGURE 2

FIGURE 3


12
Server System
16
20
Database
14
Client System
90
Boiler Data Section (B.D.S.)
96
Turbine Data Section (T.D.S.)
92
Feed Water Data Section (F.W.D.S.)
98
APC Equipment Section (A.E.S.)
94
Balance of Plant Section (B.O.P.S.)
Data Storage Devices 38
Collection Component 64
Tracking Component 66
Displaying Component 68
Receiving Component 70
Accessing Component 72
Processing Component 76
Information Fulfillment Component 78
Retrieving Component
Display Component 84
Printing Component 88
80

File Name CoalPerf031601
Project Name Sample Project

Location USA

Operator To Be Determined

124

Facility Generation Information (per unit information):

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
122 Unit Gross Output (Input 0 if N/A)	373	0	0	0	0	0	0	0
House Load	TYPICAL							
126 Type of Unit	PULVERIZED COAL							
Existing Operational Hours From CO	148,920	0	0	0	0	0	0	0

128

Dispatch Information

Unit 1

130

Percentage of Availabe Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	100.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	100.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	100.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
August	100.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
September	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

132

Dispatched Load	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	95.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	95.00%	98.00%	98.00%	98.00%	98.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	95.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	95.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	95.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIGURE - 4

120

Unit 2

Percentage of Available Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

Dispatched Load	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

Unit 3

Percentage of Available Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

Dispatched Load	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIGURE - 5

3/17/2001

Unit 4

Percentage of Available Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

Dispatched Load	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	98.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

Unit 5

Percentage of Available Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

Dispatched Load	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIGURE - 6

Unit 6

Percentage of Available Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

Dispatched Load	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

Unit 7

Percentage of Available Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

Dispatched Load	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIGURE-7

Unit 8

Percentage of Available Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

Dispatched Load	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIGURE - 8

Fuels Information: (142)

ACTUAL ANALYSIS ▼

Moisture & Ash Free	
Carbon	74.66%
Hydrogen	6.28%
Nitrogen	1.08%
Chlorine	0.02%
Sulfur	1.31%
Oxygen	16.24%

Proximate (Sulfur Free)	
Fixed Carbon	34.00%
Volatile Matter	30.70%
Moisture	29.80%
Ash	6.60%
	100.00%
Excess Air	20.00%
HHV	8,800

Ash Mineral Analysis	
Silica - SiO2	31.00%
Alumina - Al2O3	14.00%
Titania - TiO2	1.10%
Ferric Oxide - Fe2O3	6.60%
Lime - CaO	24.50%
Magnesia - MgO	6.00%
Potasium Oxide - K2O	0.25%
Sodium Oxide - Na2O	1.30%
Sulfur Trioxide - SO3	12.20%
Phosphorus Pentoxide - P2O5	0.70%
Undetermined	2.35%

Operational Information: (144)

Cycle ACTUAL CYCLE VALUES ▼

	Superheater Flow (#/hr)	Outlet Pressure (psig)	Outlet Temperature
Unit 1	2,568,331	2,400	1,000
Unit 2			
Unit 3			
Unit 4			
Unit 5			
Unit 6			
Unit 7			
Unit 8			

	Reheater Flow (#/hr)	Inlet Pressure (psig)	Outlet Pressure (psig)	Inlet Temperature (F)	Outlet Temperature (F)
Unit 1	2,254,665	639	574	660	1,000
Unit 2					
Unit 3					
Unit 4					
Unit 5					
Unit 6					
Unit 7					
Unit 8					

(146)

Feedwater Temperature (F)	
Unit 1	490
Unit 2	0
Unit 3	0
Unit 4	0
Unit 5	0
Unit 6	0
Unit 7	0
Unit 8	0

(148)

Stack Temperature (F)

ACTUAL ▼

Unit 1	275
Unit 2	0
Unit 3	0
Unit 4	0
Unit 5	0
Unit 6	0
Unit 7	0
Unit 8	0

140

FIGURE-9

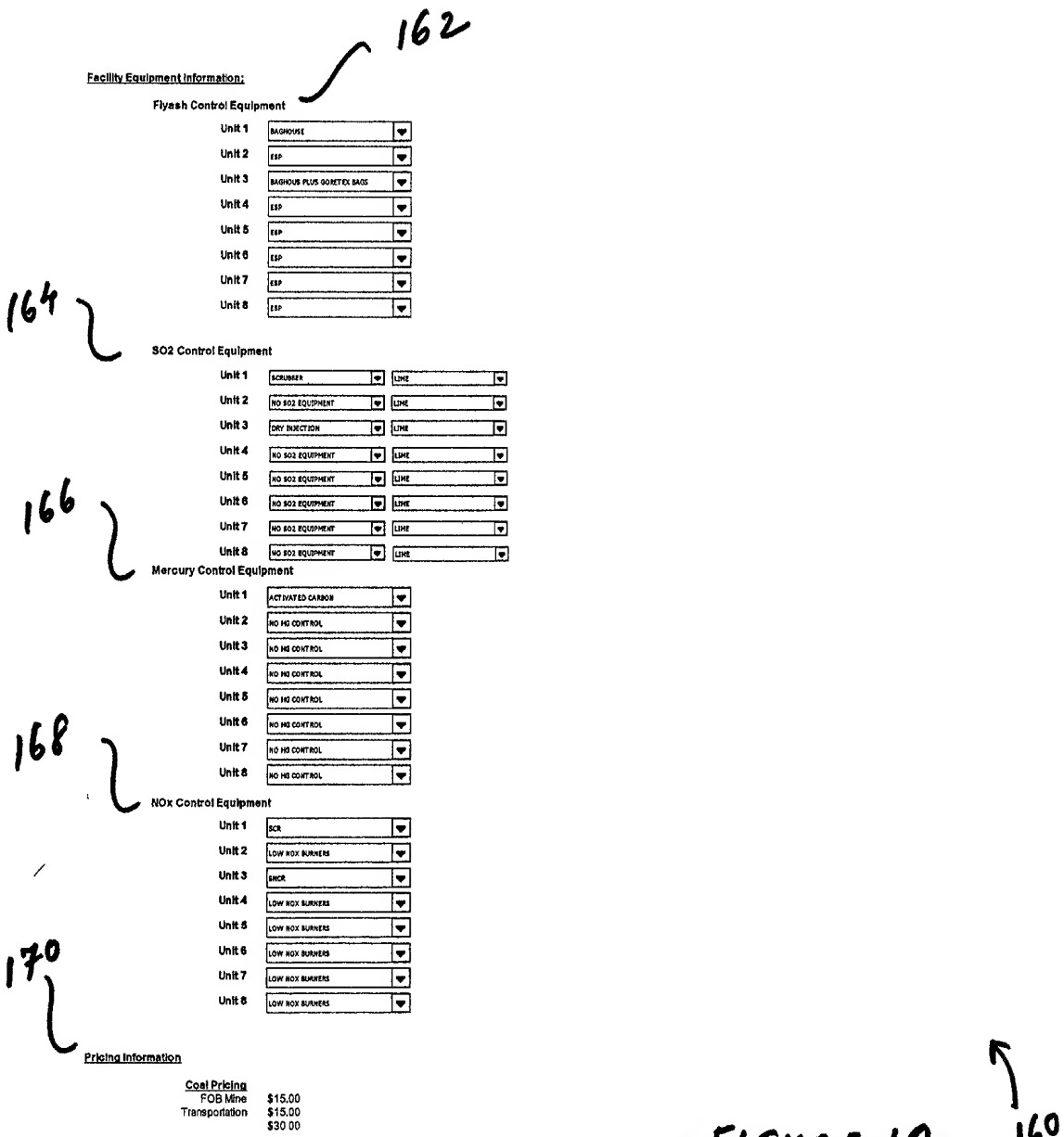


FIGURE-10

160

202

STEAM CONDITIONS:

	Without QF Steam	With Equiv. QF Steam	
Superheater Flow	2,568,331	2,568,331	lb/hr
Reheater Flow	2,254,665	2,254,665	lb/hr

204

	Superheat	Reheat
Inlet Conditions		
Steam Pressure - psia	2,470	639
Steam Quality	0	
Water/Steam Temp. - F	490	660
Enthalpy	476	1,325
Outlet Conditions:		
Steam Pressure - psia	2,415	589
Steam Temp - Deg F	1,000	1,000
Enthalpy	1,460	1,518
Heat Input	984	192

206

208

QF HEAT LOSS	No Loss	
Pounds Per Hour	0	
Pressure - psia	464.696	
Temperature	460	
Degrees of SH	50	
QF Steam Enthalpy	1243.18	
FW Enthalpy	476.14	
Heat Loss - Btu/s	0	Btu/s
Increase in Steam - #/hr	0	#/hr
	0 00%	
Equiv Output - MW	373	MW

No Loss	Included
Pounds Per Year	0.0000E+00

210

Reheat-To Superheat Ratio 0 877871661

	MCR	Partial Load
.2-.55	0.0000	0.0000
>55	0.9589	0.9589

PREDICTED PERFORMANCE: AVERAGE LOAD

			100%		(MCR)	95.00%		
FUEL	Pulverized Coal							
TURBINE STEAM FLOW CORRECTION FACTOR			0 9589			0.9589		
EVAPORATION	Superheater	lb/hr	2,568,331			2,439,914		
	Reheater	lb/hr	2,254,665			2,141,932		
TEMP AT SUPERHEATER/REHEATER OUTLET		F	1,000	/	1,000	1,000	1000	
PRES AT SUPERHEATER/REHEATER OUTLET		psig	2,400	/	574	2,400	574	
FEEDWATER TEMP		F	490			490		
GAS TEMP LEAVING AIR HEATER		F	275			268		
	(uncorr.)							
AMBIENT AIR TEMP.		F	80			80		
AIR TEMP LEAVING THE AIR HEATER (APPROX)		F	552					
EXCESS AIR		pct	20			20		
HEAT LOSSES							LHV	
	DRY GAS	pct	4.36%			4.20%	4 20%	
	H2O & H2 IN FUEL	pct	8 04%			8.02%		
	H20 IN AIR	pct	0 10%			0.10%		
	CARBON	pct	0 25%			0.24%	0.20%	
	RADIATION	pct	0 35%			0.33%	0 33%	
	MFG. MARGIN	pct	1.50%			1.43%	1.43%	
	HEAT CREDITS	pct	-0 41%			-0.39%		
	BLOWDOWN	pct	0.00%			0 00%		
	TOTAL	pct	14.19%			13.92%	6 15%	
EFFICIENCY		pct	85 81%			86.08%	93 85%	
GROSS HEAT FIRED		MMbtu/hr	3,554 99			3,366.55		
FUEL FIRED PER HOUR		lb/hr	418,234		tonnes/hr	396,065	tonnes/hr	
		TPH	209 12		190	198.03	180	
AVERAGE LOAD CONDITION DURING AVAILABE HOURS		%	100.00%			95.00%		
AVAILABLE HOURS			8,256			8,256		
FUEL FIRED PER YEAR		t/yr	1,726,472			1,634,955		
TOTAL COMBUSTION PRODUCTS		lb/hr	3,601,358			3,410,456		
		ACFM	1,109,079					
TOTAL COMBUSTION AIR		lb/hr	3,183,124			3,014,392		
		ACFM	997,176					
TOTAL ASH (100% UP)		t/hr	11.50			10.89		
TOTAL LIMESTONE (100% UP)		t/hr	3.10			2.93		
		t/yr	25,586			24,230		
TOTAL FLYASH/LIMESTONE REMOVAL SYSTEM LOADING		t/hr	14.60			13.83		
						114,152		
FLUE GAS TO STACK		lb/hr	3,601,358			3,410,456		
LJUNGSTROM AIR HEATER LEAKAGE		lb/hr	0			0		
SOOTBLOWING STEAM		lb/hr	0			0		
NET EVAPORATION		lb/hr	2,568,331			2,439,914		
POUNDS STM/KW			6.89					
NO. OF UNITS			1					

HEAT RATE CALCULATION (APPROX.):

Gross Heat Rate (Total Plant)	BTU/KW HR						
Net Heat Rate (Turbine Only)	BTU/KW HR						
		BTU/KW HR		kJ/kWh	BTU/KW HR	kJ/kWh	
Plant Gross Heat Rate:		9,543	HHV	10,068	9,513	10,036	
		8,824	LHV	9,310	8,796	9,280	
Plant Net Heat Rate	BTU/KW HR	10,098	HHV	10,654	10,066	10,621	
		9,338	LHV	9,852	9,308	9,820	

192

194

196

198

200

190

FIGURE - 11

	2001 Total Plant Costs	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total	
Direct Labor											
Adjusted for local labor requirements yes=1 no=0	0										
	$8,459,453									$8,459,453	F
Operator's Fees & Services	$327,939									$327,939	F
Bonus Payments:	$0									$0	F
Home Office Technical Support. Percent of Annual Labor	$0									$0	F
Warranty Support: Percent of Annual Labor	$0									$0	F
Planned Maintenance·	$4,100,334									$4,100,334	M
Boiler											
Turbine (Major Turbine Outage assumed in 1998)											
APC Equipment											
Feedwater System											
BOP											
Unplanned Maintenance: 10% of Planned Maintenance	$410,033									$410,033	M
Planned Spare Parts:											V
Boiler	$1,731,681									$1,731,681	V
Turbine	$766,330									$766,330	V
APC Equipment	$149,161									$149,161	V
Feedwater System	$82,661									$82,661	V
BOP	$176,691									$176,691	V
	$2,666,394										
Unplanned Spare Parts· 10% of Planned Spares	$288,639									$288,639	V
Employee Travel & Relocation:	$86,300									$86,300	F
Other Employee Expenses, Fees and Services	$286,422									$286,422	F
Office/Administration expenses:	$361,973									$361,973	F
Contract Services: Percent of Annual Labor	Included										
Ash Disposal:		$1,126,990	$0	$0	$0	$0	$0	$0	$0	$1,126,990	V
Start-up Fuel		$84,716	$0	$0	$0	$0	$0	$0	$0	$84,715	V
Consumables·	$379,977									$379,977	V
Chemicals:	$458,688									$458,688	V
Coal:		$48,510,069	$0	$0	$0	$0	$0	$0	$0	$48,510,069	V
Limestone:		$359,458	$0	$0	$0	$0	$0	$0	$0	$359,458	V
Purchased Power:		$212,706	$0	$0	$0	$0	$0	$0	$0	$212,706	V
Equipment Rental:	$1,416,653									$1,416,653	V

Total Operating Budget Case 4

Taxes	$0										
Insurance Not included! Building Data Base	$0										
Total Operations Costs Including Taxes and Insurance·	$0									$0 $69,760,837	F
Gross kW generated Annually		2,921,796,923	0	0	0	0	0	0	0	2,921,796,923	
Cost of Generation										$0.0239	

FIGURE - 12

220

O&M Cost Summary For: 2001

	Fixed Costs	Variable Costs	Major Maintenance	Fuel	
Direct Labor:	$8,459,453				
Operator's Fees & Services:	$327,939				
Bonus Payments.	$0				
Home Office Technical Support·	$0				
Warranty Support:	$0				
Planned Maintenance·			$4,100,334		
Power Marketing & Resource Management	$0				
Unplanned Maintenance:			$410,033		
Planned Spare Parts:					
Boiler:		$1,731,661			
Turbine:		$756,330			
APC Equipment:		$149,151			
Feedwater System.		$82,661			
BOP:		$176,591			
		$2,896,394			
Unplanned Spare Parts:		$266,639			
Employee Travel & Relocation:	$86,300				
Other Employee Expenses, Fees and Services	$286,422				
Office/Administration expenses:	$361,973				
Contract Services·	Included				
Ash Disposal:		$1,128,990			
Start-up Fuel:		$84,715			
Consumables:		$379,977			
Chemicals·		$458,566			
Coal:				$48,510,069	
Limestone:		$359,458			
Purchased Power:		$212,706			
Equipment Rental:		$1,418,553			
	$				Total Generation Costs
Total Operating Budget	$9,522,066	$7,218,116	$4,510,367	$48,510,069	$69,760,637
	13.65%	10.35%	6.47%	69.54%	
	Fixed Costs	Variable Costs	Maintenance	Fuel	
	$0.0033	$0.0025	$0.0016	$0.0166	$0.0239

FIGURE - 13

230

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

FIGURE. 14

240

Facility Generation Information (per unit information):			Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total	
			1	0	0	0	0	0	0	0		
Facility Net Output:	Use typical value=1, Actual=2	1	352.0	0.0	0.0	0 0	0.0	0.0	0.0	0.0	352.0	MW
House Load (~5.5%):			5 50%	0 00%	0.00%	0.00%	0.00%	0 00%	0.00%	0.00%	0.00%	
	House Load in MW		20.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00		MW
Line Losses:			0	0	0	0	0	0	0	0	Total	MW
Unit Gross Output:	Total Installed Capacity in MW	373	373	0	0	0	0	0	0	0	373	MW
	Equivalent Gross		373	0	0	0	0	0	0	0	373	MW
O&M Costs Calculated:	Based on Actual Gross Output = 1 Based on Equiv. Gross Output = 2		1	1	1	1	1	1	1	1		
Equiv. Increased MW Output:	0 #/hr		0	0	0	0	0	0	0	0		MW
(Approximate)			373	0	0	0	0	0	0	0		MW
Gross Output Used in O&M Calculations:			373	0	0	0	0	0	0	0		MW
Unit Net Heat Rate (HHV)	(Full Load Calculated Value)	BTU/KW HR	10,098	0	0	0	0	0	0	0	Btu/kWh	
		kJ/kWh	10,654	0	0	0	0	0	0	0	kJ/kWh	

242

Operational Information For:	2001										
			Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total
	Unit in Operation	Yes=1, No=0	1	0	0	0	0	0	0	0	1
Base O&M Labor Costs On											
Gross Maximum Capacity			373	0	0	0	0	0	0	0	373
Net Maximum Capacity	9,867		352	0	0	0	0	0	0	0	352
		Net Capacity Factor	89.53%	0 00%	0.00%	0.00%	0.00%	0 00%	0 00%	0.00%	
		Availability Factor	94.25%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Gross Generation (Actual)		Gross Generation (Actual)	2,921,798	0	0	0	0	0	0	0	2,921,798
		Net Generation (Actual)	2,761,097	0	0	0	0	0	0	0	2,761,097
Period Hours	Per Year = 1, Per Month =2	1	8,760	0	0	0	0	0	0	0	
Available Hours			8,256	0	0	0	0	0	0	0	0
Forced Outage Hours			0	0	0	0	0	0	0	0	
Planned Outage Hours			0	0	0	0	0	0	0	0	
Maintenance Outage Hours			0	0	0	0	0	0	0	0	
Average Load Condition (Gross) MW		Check	354	0	0	0	0	0	0	0	MW
%		0 9589	89.53%	0 00%	0.00%	0.00%	0.00%	0 00%	0.00%	0.00%	
Average Load Condition (Net) MW			334	0	0	0	0	0	0	0	MW
			95.00%	0.00%	0.00%	0.00%	0.00%	0 00%	0.00%	0 00%	

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QF Steam For:		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
	QF Steam Flow (% of MCR)	0%	0%	0%	0%	0%	0%	0%	0%
	Pounds Per Hour (Average)	0	0	0	0	0	0	0	0
	Pounds Per Year	0	0	0	0	0	0	0	0
	Pressure (psig)	450	450	450	450	450	450	450	450
	Degrees of SH (F)	50	50	50	50	50	50	50	50
	(Input 0 for saturated steam or input actual degrees of SH)								

Cost Related Information:
Escalation Date 17-Mar-01

Escalation Rate			4.00%
Last Major Turbine Overhaul	Input for day of the year of work		01-May-84
Cost of Purchased Electricity			$0.060
Location Adjustment Index:		Base	
	CPI Combust	Index	
	Material	98.7	147.00
	Labor	98.7	154.00

Exchange Rate (X/US$)	1			
			US$	
Cost per Ton of Fuel (including trans.)		Coal FOB mine:	$15.00	$/ton - FOB Mine
		Transportation:	$15.00	
			$30.00	per ton
			$33.07	per tonne
			17.00	MM Btu's/ton
			$0.88	$/MM Btu's - FOB mine
			$1.76	$/MM Btu's - Delivered
Disposal Cost per Ton of Ash/Scrubber Sludge				
Disposal Cost per Ton of Ash/Scrubber Sludge			$10.00	
		LIMESTONE 1		
Lime/Limestone		LIME 2	2	
Cost per Ton of:		Lime FOB Mine:	$0.00	
		Transportation:	$0.00	
		Total:	$15.00	
Start-up Fuel		Oil = 1 ; NG = 2	2	
		Oil Cost Per Gallon (Delivered)	$0.80	
		NG Cost Per Therm		
		Transportation:	$0.50	

Coal Pricing - Tonne Basis

69.55	84.76	97.06
	121.87%	114.51%
6.66	7.55	8.61
	113.36%	114.04%

Ash - Tonne Basis

21.35	22.68	26.22
	106.23%	115.61%

FIGORE- 15

Operator Related Information:		
Operator Fee		$0
Operator Bonus		$0
Home Office Tech Support		$0
Warranty Support		$0
Number of shifts		4
Union/non-union Facility	Union =1 ; non-union=0	0
Overtime		10%
Wage Benifits		40%

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Facility Equipment Information:		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
Type Of Boiler Equipment (1 or 2)		1	1	1	1	1	1	1	1
1	PULVERIZED COAL								
2	FLUIDIZED BED								
Unit Design / Commercial Operation Date		PC	PC	PC	PC	PC	PC	PC	PC
Number of Boilers		1	1	1	1	1	1	1	1
Flyash Control System									
	1 ESP	2	1	3	1	1	1	1	1
	2 BAGHOUSE								
	3 BAGHOUS PLUS GORETEX BAGS								
SO2 Control System:									
	1 NO SO2 EQUIPMENT	3	1	2	1	1	1	1	1
	2 DRY INJECTION								
	3 SCRUBBER								
Mrcury Control System									
	1 NO HG CONTROL	2	1	1	1	1	1	1	1
	2 ACTIVATED CARBON								
NOx Control System									

	1 LOW NOX BURNERS		3	1	2	1	1	1	1	1	
	2 SNCR										
	3 SCR										
Cooling Tower: (Yes=1; No=0)			1	1	1	1	1	1	1	1	
Cycle:	1 ACTUAL CYCLE VALUES		1	1	1	1	1	1	1	1	
	2 STANDARD 1800 PSIG (NON-REHEAT)										
	3 STANDARD 2400 PSIG (5% OP)										
Superheater:	(~4,080,000 @ 800 MW)	(Input Actual Flow Value if Available)									
	Flow without QF heat loss		2,588,331	0	0	0	0	0	0	0	
	Equiv. QF Steam Increase		0	0	0	0	0	0	0	0	
	Total Steam Flow		2,588,331	0	0	0	0	0	0	0	
	Outlet Pressure		2,400	0	0	0	0	0	0	0	psig
	Outlet Temperature		1,000	0	0	0	0	0	0	0	deg F
			0	0							
Reheater:	~3,770,000 @ 800 MW			0							
	Flow without QF heat loss		2,254,665	0	0	0	0	0	0	0	
	Equiv. QF Steam Increase		0	0	0	0	0	0	0	0	
	Total Steam Flow		2,254,665	0	0	0	0	0	0	0	
	Inlet Pressure (psig)		639	0	0	0	0	0	0	0	psig
	Inlet Temperature (F)		660	0	0	0	0	0	0	0	
	Outlet Pressure (psig)		574	0	0	0	0	0	0	0	psig
	Outlet Temperature (F)		1,000	0	0	0	0	0	0	0	
Feedwater Temperature			490	0	0	0	0	0	0	0	
Stack Temperature	1 ACTUAL	1	275	0	0	0	0	0	0	0	
Ambient Temperature	2 STANDARD		80	0	0	0	0	0	0	0	
Spares Cost											
	SO2 Removal		90%	0%	0%	0%	0%	0%	0%	0%	
Fuel Loss during Handling:			3%	0%	0%	0%	0%	0%	0%	0%	

Fuels Information:

ACTUAL ANALYSIS	1
STANDARD BITUMINOUS	2
STANDARD SUBBITUMINOUS	3
STANDARD LIGNITE (TEXAS)	4
STANDARD NATURAL GAS	5
Selected Fuels Input:	1

Fuel Analysis:

Ultimate Analysis	Sub-Bituminous	
Moisture	29 80%	
Ash	5 50%	
Carbon	48 30%	
Hydrogen	3 40%	
Nitrogen	0.70%	
Chlorine	0.01%	
Sulfur	0.85%	
Oxygen	11.80%	
	100.36%	
Excess Air:	20.00%	
HHV:	8,500	Btu/lb
LHV:	18.28	GJ/tonne
Proximate:		
Fixed Carbon (differential)	33.71%	
Volatile Matter	30.44%	
Sulfur	0 85%	

Natural Gas	(Gas analysis is entered on fuels page)		
Oxygen	O2	0.00%	
Argon	A	0.00%	
Carbon Dioxide	CO2	0 00%	
Nitrogen	N2	0.00%	
Hydrogen	H2	0 00%	
Hydrogen Sulfide	H2S	0 00%	
Methane	CH4	0 00%	
Ethane	C2H6	0.00%	
Propane	C3H8	0 00%	
n-Butane	C4H10	0 00%	
n-Pentane	C5H12	0 00%	
n-Hexane	C6H14	0.00%	
Total:		0 00%	
Excess Air:	10.00%		
HHV.	0		Btu/CF(1)
LHV:	0		Btu/CF(1)

Note 1: (68F,30"WG)

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FIGURE. 16

Moisture		29.55%
Ash		5.45%
		100.00%

Furnace Volume Design Parameters		
	Volume - Cu. Ft.:	20,000
	Surface - Sq. Ft. (EPRS - Up Nose):	200,000
	NHI/PA:	1,850,000
Carbon Loss		0.25%

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FIGURE-17

FIGURE - 18

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File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Escalation 4.00%
Escalation Factor 1.070

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total Facility
Number of Equipment Sets Per Unit	1	0	0	0	0	0	0	0	1
Unit Gross Output	373	0	0	0	0	0	0	0	373
	19-Mar-01								
Development Costs									
Internal Costs	$11,833	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$11,832.68
Third Party Costs	$12,326	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$12,325.70
Project Counsel	$1,578	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,577.69
Development Contingency	$0	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Land Options	$986	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$986.06
Pre NTP EPC Cost	$1,972	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,972.11
Total Development Costs	$28,694	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$28,694.24
Development Fee	$9,057	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$9,057.13
Mine Acquisition Costs	$0	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Site Purchase	$12,076	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$12,076.17
Development Fee/Mine Acquisition/Site	$21,133	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$21,133.30
Plant									
Boilers									
Headers	$4,307	$0	$0	$0	$0	$0	$0	$0	
Heating Surface	$21,936	$0	$0	$0	$0	$0	$0	$0	
Waterwall	$12,904	$0	$0	$0	$0	$0	$0	$0	
Steel	$16,533	$0	$0	$0	$0	$0	$0	$0	
Firing Equipment	$10,275	$0	$0	$0	$0	$0	$0	$0	
Misc Equipment	$20,646	$0	$0	$0	$0	$0	$0	$0	
	$86,601	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$86,600.85
Turbine Generators	$38,324	$0	$0	$0	$0	$0	$0	$0	$38,324.29
BAGHOUSE	$7,459	$0	$0	$0	$0	$0	$0	$0	$7,459.07
SCRUBBER	$37,253	$0	$0	$0	$0	$0	$0	$0	$37,252.60
ACTIVATED CARBON	$419.07	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$419.07
SCR	$37,253	$0	$0	$0	$0	$0	$0	$0	$37,252.60
Circulating Water System	$1,275.65	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,275.65
Electrical System & Equipment	$23,330.45	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$23,330.45
Fuel Storage & Handling	$17,662.70	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$17,662.70
Infrastructure	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Water Treatment	$3,132.42	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$3,132.42
Other	$39,755.15	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$39,755.15
Misc Insurance	$515.62	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$515.62
Fixtures									
Boilers - not plant related	$446.53	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$446.53
Chimneys	$3,500.06	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$3,500.06
Cooling Towers	$20,257.85	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$20,257.85
Coal Bunkers	$1,002.37	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,002.37
Land & Buildings									
Buildings	$34,773.70	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$34,773.70
Other									
EPC Target	$49,085.80	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$49,085.66
Total EPC Costs	$402,046.85	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$402,046.85
Transmission Fees During Construction	$4,021.87	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$4,021.87
Waste Water Pipeline	$11,189.05	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$11,189.05
Management Services During Construction									
General & Administrative	$15,382.48	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$15,382.48
Professional Services	$2,760.96	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,760.96
Engineering Consultants	$1,972.11	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,972.11
Utilities	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Owner's Mobilization G&A	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Other Owner's Costs	$2,218.63	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$2,218.63
Management Services Fee	$1,725.60	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,725.60
Total Owner's Costs	$24,059.78	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$24,059.78
O&M Mobilization									
Labor	$6,806.58	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$6,806.58
Fee	$1,015.84	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,015.84
G&A	$374.70	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$374.70
Plant Consumables	$1,356.81	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,356.81
Equipment	$5,423.31	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$5,423.31
Owners G&A	$9,663.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$9,663.35
	$24,440.39	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$24,440.39
Infrastructure Costs									
Roads	$8,263.15	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$8,263.15
Community Infrastructure	$1,054.09	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,054.09
Mine Industrial Area	$5,180.74	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$5,180.74
Construction Camp	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Water Management	$1,176.37	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,176.37
Total Infrastructure Costs	$15,674.35	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$15,674.35
Owner's Contingency									
Power Plant EPC Costs	$40,204.67	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$40,204.67
Transmission Costs	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Electrical Interconnection	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
Infrastructure Costs	$1,567.44	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$1,567.44
Total Owner's Contingency	$41,772.10	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$41,772.10
Financing Fees/Costs									
Financial Advisor	$6,409.37	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$6,409.37
Upfront Fees	$8,381.48	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$8,381.48
	$14,790.85	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$14,790.85

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total Facility
Unit Gross Output	373	0	0	0	0	0	0	0	373
Total Cost	$587,823	$0	$0	$0	$0	$0	$0	$0	$587,823
$/kW Installed	$1,576	$0	$0	$0	$0	$0	$0	$0	$197

File Name: CoalPerf031601
Project Name: *Sample Project*

Location: USA

Operator: To Be Determined

Date Hours of Operation (@ end of operational year) Operational Year	Mar-01 1	Mar-02 2	Mar-03 3	Mar-04 4	Mar-05 5	Mar-06 6	Mar-07 7	Mar-08 8	Mar-09 9	Mar-10 10	10 Year Average
Waterwall	$258	$1,290	$258	$258	$258	$258	$258	$1,290	$258	$258	$464
Heating Surface	$439	$2,193	$439	$439	$439	$439	$439	$2,193	$439	$439	$790
Grates	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
Pulverizers	$0	$1,032	$0	$258	$0	$516	$0	$1,032	$0	$258	$310
Air Pre-Heater	$0	$1,032	$0	$258	$0	$516	$0	$1,032	$0	$258	$310
Fuel Handling	$0	$88	$0	$177	$0	$88	$0	$177	$0	$88	$62
Headers	$0	$215	$0	$0	$0	$0	$0	$215	$0	$0	$43
Steel	$0	$0	$0	$0	$0	$17	$0	$0	$0	$0	$2
Belts/Crushers	$0	$0	$0	$0	$0	$132	$0	$0	$0	$0	$13
Casing/Refractory/Ductwork	$0	$0	$0	$0	$0	$177	$0	$0	$0	$0	$18
Chemical Cleaning	$0	$0	$0	$0	$0	$0	$0	$550	$0	$0	$55
Sub-Total	**$697**	**$5,851**	**$697**	**$1,389**	**$697**	**$2,143**	**$697**	**$6,489**	**$697**	**$1,301**	**$2,066**
Turbine (insp/overaul)	$0	$1,916	$0	$0	$0	$0	$0	$1,916	$0	$0	$383
Turbine Valves	$0	$575	$0	$0	$287	$0	$0	$575	$0	$0	$144
Generator (inspections)	$0	$766	$0	$0	$0	$0	$0	$766	$0	$0	$153
Sub-Total	**$0**	**$3,257**	**$0**	**$0**	**$287**	**$0**	**$0**	**$3,257**	**$0**	**$0**	**$680**
Anion Resin	$344	$0	$0	$376	$0	$0	$407	$0	$0	$188	$132
Cation Resin	$0	$141	$0	$0	$0	$125	$0	$0	$0	$0	$27
MB Resin	$141	$0	$0	$110	$0	$0	$125	$0	$0	$141	$52
Carbon Filters	$78	$0	$78	$0	$78	$0	$78	$0	$78	$0	$39
Gravity Filters	$0	$0	$13	$0	$0	$0	$0	$0	$38	$0	$5
Sub-Total	**$564**	**$141**	**$91**	**$486**	**$78**	**$125**	**$611**	**$0**	**$116**	**$329**	**$254**
BAGHOUSE	$0	$0	$164	$0	$0	$164	$0	$0	$164	$0	$49
SCRUBBER	$0	$0	$310	$0	$0	$310	$0	$0	$310	$0	$93
Sub-Total	**$0**	**$0**	**$474**	**$0**	**$0**	**$474**	**$0**	**$0**	**$474**	**$0**	**$142**
Electrical	$0	$233	$0	$233	$0	$233	$0	$233	$0	$233	$117
I&C	$0	$117	$0	$117	$0	$117	$0	$117	$0	$117	$58
Power Block	$0	$1,916	$0	$0	$958	$0	$0	$1,916	$0	$0	$479
Ash Handling	$413	$0	$206	$0	$206	$0	$413	$0	$413	$0	$165
General	$122	$0	$139	$0	$146	$0	$156	$0	$122	$0	$68
Facilities/Infrastructure	$0	$122	$0	$139	$0	$156	$0	$170	$0	$122	$71
Sub-Total	**$535**	**$2,387**	**$345**	**$489**	**$1,310**	**$506**	**$569**	**$2,436**	**$535**	**$472**	**$958**
Total:	**$1,795**	**$11,636**	**$1,607**	**$2,364**	**$2,373**	**$3,248**	**$1,877**	**$12,182**	**$1,821**	**$2,101**	**$4,100**

FIGURE - 19

300

General Project Information:

File Name: CoalPerf031601

Project Name: Sample Project

Location: USA

Operator: To Be Determined

Operator's Fees & Services:

Operator Fee	**$0**
Legal Services	$139,805
Construction Services	$146,709
Testing Services	$41,424
Total Fees & Services	**$327,939**
Travel:	**$86,300**
Misc. Employee Expeses	**$286,422**

FIGURE. 20 310

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

			Sample Project
Consumables:			
	Lubricating Oils		$379,977
	Hydraulic Oil.		
	Solvents/Boiler Wash.		
	Cleaning Materials.		
	Welding Supplies:		
	Nuts/Bolts/Small Mechanical Parts:		
	Fuses/Light Bulb/small Elect. Parts:		
	Fittings/Small I&E Parts:		
	Gas & Oil.		
	Total Oils and Lubricants		$379,977
Chemicals:			
	Boiler Water:	62.27%	$285,603
	Cooling Water:	36.38%	$166,889
	Demin. Regen.	1.35%	$6,194
	Fuel Oil.		
	Sanitary:		
	NOx		
	Aqueous Ammonia:		
	Total Chemicals.		$458,686
Gases:			
	Nitrogen:		$0
	Hydrogen:		$0
	Oxygen/Acetylene		$0
	NOx, CO, SO2, O2 Span Gas		$0
	Total Gases:		$0
Office Supplies & Services:			
	Postage, Overnight Mail, etc:		$17,104
	Freight:		$0
	Telephone		$41,038
	Utilities		$9,263
	Dues, Subscriptions		$70,914
	Advertising		$0
	Camera/ Film/Photo Supplies:		$0
	Copier/Paper/Service:		$0
	Office Supplies:		$40,194
	General Supplies		$0
	Audio Visual Equipment:		$0
	Portable Radios/Service:		$0
	Drinking Water:		$0
	Safety Supplies:		$0
	Safety/Environmental Insp:		$0
	Instrument Service/Repair:		$0
	Vehicles/Service/Fuel:		$165,284
	Insurance Autos/Trucks		$0
	Lift Trucks/Service:		$0
	Small Tools:		$0
	Software for Computers:		$271
	Computer Hardware:		$0
	Building Maintenance:		$4,594
	Janitorial Supplies:		$0
	Misc. Expenses:		$13,310
	Uniforms:		$0
	Total Supplies and Services		$361,973
Office Furnature/Rent:			
	Office Rent:		$0
	Desk/Chairs/etc:		$0
	Lab/Shop/Cntrl. Rm Equip:		$0
	Computer Lease:		$0
	Total Office Furnature		$0

FIGURE - 21

320

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Rentals/Lease:

Tools:	
Equipment:	$15,304
Office:	$261,694
Office Equipment	$57,431
Railcar:	$1,066,871
Lease Auto/Tucks	$17,253
Total Rentals:	$1,418,553

Planned Spare Parts:

Boiler:		$1,731,661
Turbine:		$766,330
APC Equipment:		$149,151
Feedwater System:		$62,661
BOP:		$176,591
	Total Spare Parts:	$2,886,394

FIGURE-22 340

File Name: CoalPert031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Proximate Analysis:

FC	33.71%
VM	30.44%
S	0.85%
M	29.55%
A	5.45%
Total	100.00%

HHV (Btu/#) 8,500

Information used in conjunction with the coal classification figure:

BTU-	8504.88
DRY.	33.70%

Project Coal Classification:

3
Coal Type: Sub-
(Calculated) Bituminous
OK
Hardgrove Grind. Index:

Ash Mineral Analysis:

Silica - SiO2	31.00
Alumina - Al2O3	14.00
Titania - TiO2	1.10
Ferric Oxide - Fe2O3	6.50
Lime - CaO	24.80
Magnesia - MgO	6.00
Potassium Oxide - K2O	0.25
Sodium Oxide - Na2O	1.30
Sulfur Trioxide - SO3	12.20
Phosphorus Pentoxide - P2O5	0.70
Undetermined	2.35
Total	100.00

Ash Fusion Temperatures (Deg. F)

Initial Deformation-Reducing (Input Data)	2189
Initial Deformation-Oxidizing (Input Data)	2239

PARR Formula Relationships:

BASE/ACID RATIO:
(A range of .4-.7 0.7641
coals and results in low ash-fusibility temps)

IRON/CALCIUM RATIO:
(3-0.3 indicative 0.26
lowers the fusibility temp. of the ash.)

IRON/DOLOMITE RATIO:
(Bit. type ash u 0.21

SILICA/ALUMINA RATIO:
(above 2.8 & b 2.21

FIGURE-23

Project Natural Gas Analysis:

Natural Gas Analysis.		Percent by vo	Molecular Weight	Lb/100 Moles	Lb Constituent Per Lb Fuel	Lb Air Required for Combustion Per Lb Fuel	Lbs Dry Air Per Lb Fuel	BTU's Per Lb Constit.	BTU's Per Lb Fuel	#/Cu Ft (2)	Density #/Cu Ft (2)
[redacted]	O2	0.00%	32.00	0.00	#DIV/0!			0	#DIV/0!	0.0846	0
	A	0.00%	0.00	0.00	#DIV/0!	0	#DIV/0!	0	#DIV/0!		0
	CO2	0.00%	44.00	0.00	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0.117	0
	N2	0.00%	28.08	0.00	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0.0744	0
	H2	0.00%	2.02	0.00	#DIV/0!	34.34	#DIV/0!	61,095	#DIV/0!	0.0053	0
	H2S	0.00%	34.08	0.00	#DIV/0!	6.1	#DIV/0!	7,097	#DIV/0!	0.0911	0
	CH4	0.00%	16.03	0.00	#DIV/0!	17.27	#DIV/0!	23,875	#DIV/0!	0.0425	0
	C2H6	0.00%	30.05	0.00	#DIV/0!	16.12	#DIV/0!	22,323	#DIV/0!	0.0803	0
	C3H8	0.00%	44.06	0.00	#DIV/0!	15.7	#DIV/0!	21,669	#DIV/0!	0.1196	0
	C4H10	0.00%	58.10	0.00	#DIV/0!	15.49	#DIV/0!	21,321	#DIV/0!	0.1582	0
	C5H12	0.00%	72.10	0.00	#DIV/0!	15.35	#DIV/0!	21,095	#DIV/0!	0.1904	0
	C6H14	0.00%	86.12	0.00	#DIV/0!			20,966	#DIV/0!	0.2274	0
Total:		0.00%		0.00	#DIV/0!		#DIV/0!		#DIV/0!		0

Molecular Weight of Fuel: 0

Flue Gas Weight			
#gas/Cu. Ft.(gas)	0		
GHI to GT (MMBTU)	372.8		
GHI to Duct Burners	32.26		59708
Total GHI:	405.06		7144
HHV of Fuel (BTU/Cu. Ft.)	0		426.553952
Cu. Ft. of Gas Fired / Hr	#DIV/0!		
Lbs. of Gas Fired / Hr	#DIV/0!		
Lbs. of Air / Hr	#DIV/0!		#DIV/0!
Total Gas Flow @ 0%EA	#DIV/0!		

Natural Gas Heating Value Conversion Analysis:
17-Mar-01

Natural Gas Analysis:		Percent by vol.	Btu/CF(1)	HHV Comp. Btu (68F,14.70psia)	HHV Comp. Btu (60F,14.70psia)
Oxygen	O2	0.00%	0	0.00	0.00
Argon	A	0.00%	0	0.00	0.00
Carbon Dioxide	CO2	0.00%	0	0.00	0.00
Nitrogen	N2	0.00%	0	0.00	0.00
Hydrogen	H2	0.00%	319.4	0.00	0.00
Hydrogen Sulfide	H2S	0.00%	647	0.00	0.00
Methane	CH4	0.00%	994.7	0.00	0.00
Ethane	C2H6	0.00%	1742.6	0.00	0.00
Propane	C3H8	0.00%	2480.1	0.00	0.00
Butane	C4H10	0.00%	3215.6	0.00	0.00
Pentane	C5H12	0.00%	3950.2	0.00	0.00
Hexane	C6H14	0.00%	4661.236	0.00	0
Total		0.00%	HHV =	0.00	0.00

Natural Gas Analysis:		Percent by vol.	Btu/CF(1)	LHV Comp. Btu (68F,30"WG)	LHV Comp. Btu (60F,30"WG)
Oxygen	O2	0.00%	0	0.00	0.00
Argon	A	0.00%	0	0.00	0.00
Carbon Dioxide	CO2	0.00%	0	0.00	0.00
Nitrogen	N2	0.00%	0	0.00	0.00
Hydrogen	H2	0.00%	270	0.00	0.00
Hydrogen Sulfide	H2S	0.00%	595	0.00	0.00
Methane	CH4	0.00%	896	0.00	0.00
Ethane	C2H6	0.00%	1594.5	0.00	0.00
Propane	C3H8	0.00%	2282.6	0.00	0.00
Butane	C4H10	0.00%	2968.7	0.00	0.00
Pentane	C5H12	0.00%	3654	0.00	0.00
Hexane	C6H14	0.00%	4311.72	0.00	0.00
Total		0.00%	LHV =	0.00	0.00

HHV/LHV Ratio #DIV/0!

Notes:
(1) Source Mark's standard Handbook for Mechanical Engineers
Ninth Edition Page 4-29

FIGURE · 24

Molecular Weights				
S	32.064	1	32.064	
O	15.999	2	31.999	
			64.063	50.05%

SO^2 Offset Cost Assumption $150.00 $/Ton

Southern Fuels

@ 1.2 lbs SO_2/million BTU[A]

Mines	Average BTU/lb Content	Average Percent Sulfur (8 %)	Average Ash Content (%)	In Compliance (Y/N) *	8 % allowed for Compliance	lbs SO^2/MM Btu	SO2 Reduction Efficiency	lbs SO^2/MM Btu	Required Offsets Tons SO^2/Ton Coal Fired	Cost of Offsets $/Ton of Coal Fired
Bailey	12,950	2.14%	7.50%	N	0.776%	3.3	10.00%	2.97	0.038462	$5.769
Colonial	12,800	0.93%	8.88%	N	0.769%	1.45	0.00%	1.45	0.018560	$2.784
Whitetail	12,800	1.80%	8.25%	N	0.769%	2.5	0.00%	2.50	0.032000	$4.800
Juliana	12,900	1.29%	9.75%	N	0.775%	2	0.00%	2.00	0.025800	$3.870
Sawmill	12,900	1.29%	9.75%	N	0.775%	2	0.00%	2.00	0.025800	$3.870
Sentenial	12,900	1.29%	9.75%	N	0.775%	2	0.00%	2.00	0.025800	$3.870
Winifrede	12,800	0.93%	9.25%	N	0.769%	1.45	0.00%	1.45	0.018560	$2.784
	8,500	0.92%	5.50%	N	0.511%	2.17	0.00%	2.17	0.018445	$2.767

41907.04

Provided Information

Project Info. Check

	HHV	Tons Fired	BBtu	SO2 (tons)	$ (tons)	% $
Unit 1	8,551	756,000	12,929	11,500	5,756	0.76%
Unit 2	8,551	756,000	12,929	13,510	6,762	0.89%
Unit 3	8,551	752,000	12,861	12,220	6,116	0.81%
		2,264,000	38,718	37,230	18,634	

Project Info. Check

	HHV	Tons Fired	BBtu	SO2 (tons)	$ (tons)	% $
Unit 1	8,551	2,272,000	38,856	11,500	5,756	0.25%
Unit 2	8,551	2,338,000	39,984	13,510	6,762	0.29%
		4,610,000	78,840	25,010	12,518	

Calculated Information:		Sub- Bituminous							SO2 (1.2#/MMBtu)	tons of
Project	HHV	% $	Tons Fired	MMBtu	Sulfur (tons)	SO2 (tons)	#SO2/MMBtu	Allowable Tons	Offsets Required
Unit 1	8,500	0.85%	1,617,002	27,489,039	13,745	27,481	2.00	16,493	10,988
Unit 2	8,500	0.85%	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Unit 3	8,500	0.85%	#NUM!	#NUM!	#NUM!	#NUM!		#NUM!	#NUM!
			#NUM!	#NUM!	#NUM!	#NUM!			#NUM!

FIGURE - 25

3/17/2001

O & M Labor, Purchased Power And Fuel Calculations

GENERAL PROJECT INFORMATION:

File Name: CostPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

ANNUAL INFLATION RATE (to present day) 4 0%
BASE DATE 22-Aug-93
ESCALATION DATE 17-Mar-01
7 57
Part Year Esc Factor 1 00

BASE INDEX

Being Updated Zip Code to be used to identify location

	MODEL	PROJECT	PROJECT ADJUSTMENT
COMPOSIT ADJUSTMENT		0	#DIV/0!
MATERIAL	99 7	147	147 44%
LABOR	98 7	154	156 03%

Number of Units	1
Total Installed MW	373
Average Unit Size	373
Multiple Unit Labor Multiplyer	1 00

CAPACITY (MW)

SYSTEM POWER BLOCK

NUMBER OF SHIFTS
4 Operations and Maintenance
1 Administration

Exchange Rate 1

LABOR SUMMARY (ADJUSTED FOR LOCATION)

		NUMBER PER SHIFT	NUMBER OF SHIFT(S)	NUMBER OF EMPLOYEES PER POSITION	HOURLY WAGE	OVERTIME (YES=1/NO=0)	OVERTIME	ANNUAL WAGE Per Employee	ANNUAL Wage with OT per Employee	FRINGES	ANNUAL Wage with Fringes per Employee	ANNUAL LABOR COST	
ADMINISTRATIVE	PLANT MANAGER	1	1	1	N/A	0	10 0%	$100 944	$100 944	40%	$141 321	$141 321	141,321
	OPERATIONS MANAGER	1	1	1	N/A	0	10 0%	$87,485	$87 485	40%	$122,478	$122 478	122 478
	MAINTENANCE MANAGER	1	1	1	N/A	0	10 0%	$80 755	$80,755	40%	$113 057	$113,057	113 057
	PLANT/RESULTS MANAGER	1	1	1	N/A	0	40 0%	$74 025	$74,025	40%	$103,636	$103 636	103 636
	OFFICE MANAGER	1	1	1	$20 19	1	10 0%	$41 993	$46,192	40%	$64 669	$64 669	64,669
	ACCOUNTANT	2	1	2	$18 84	1	10 0%	$39,193	$43,112	40%	$60,357	$120 715	120 715
	ACCOUNT CLERK	2	1	2	$14 81	1	10 0%	$30 795	$33,874	40%	$47,424	$94 847	94 847
	SECRETARY	3	1	3	$13 46	1	10 0%	$27 995	$30,795	40%	$43 112	$129 337	129 337
													0
	PLANT/RESULTS ENGINEER	1	2	2	N/A	0	10 0%	$53 837	$53 837	40%	$75,371	$150 743	150 743
	STOCK CLERK	2	4	8	$14 81	1	10 0%	$30 795	$33 874	40%	$47 424	$370,389	379,389
				22									
	SUB-TOTAL										Total Admin Labor	$1,420,192	1,420,192
												22	

		NUMBER PER SHIFT	NUMBER OF SHIFT(S)	NUMBER OF EMPLOYEES PER POSITION	HOURLY WAGE	OVERTIME (YES=1/NO=0)	OVERTIME	ANNUAL WAGE	ANNUAL Wage with OT per Employee	FRINGES	ANNUAL Wage with Fringes per Employee	ANNUAL COST	
OPERATIONS	SHIFT SUPERVISOR	1	4	4	N/A	1	10%	$74,025	$81 428	40%	$113 999	$455 997	455,997
	CONTROL ROOM OPERATOR	1	4	4	N/A	1	10%	$67,296	$74 025	40%	$103,636	$414 542	414 542
	CHEMIST	1	4	4	N/A	1	10%	$60,566	$66,623	40%	$93 272	$373 088	373 088
	APC EQUIP OPERATOR	2	4	8	N/A	1	10%	$67,296	$74 025	40%	$103 636	$829 085	829,085
	ROVER	1	4	4	$21 53	1	10%	$44 792	$49 271	40%	$68 980	$275,919	275 919
	SWEEPER/OPERATOR	1	4	4	$17 50	1	10%	$36,394	$40 033	40%	$56,046	$224 185	224 185
	FRONT-END LOADER	1	4	4	$17 50	1	10%	$36 394	$40 033	40%	$56 046	$224 185	224 185
				32									
MAINTENANCE	MECHANICS	1	4	4	$32.30	1	10%	$67,188	$73 907	40%	$103 470	$413,879	413 879
	MECHANICS HELPERS	1	4	4	$24 23	1	10%	$50 391	$55 430	40%	$77 602	$310 409	310 409
	TRUCK DRIVERS	1	4	4	$18.84	1	10%	$39 193	$43,112	40%	$60,357	$241,429	241 429
	ASH/APC SLUDGE MOVER	2	4	8	$18 84	1	10%	$39 193	$43 112	40%	$60,357	$482 859	482 859
	APC MECHANICS	2	4	8	$32.30	1	10%	$67,168	$73 907	40%	$103 470	$827 758	827,758
				28									
	ELECTRICIANS	1	4	4	$32 30	1	10%	$67,188	$73 907	40%	$103 470	$413,879	413 879
	ELECTRICIANS HELPERS	1	4	4	$24.23	1	10%	$50,391	$55 430	40%	$77 602	$310 409	310 409
	INSTRUMENT TECH'S	1	4	4	$32 30	1	10%	$67,188	$73 907	40%	$103 470	$413 879	413,879
	APC I&C	2	4	8	$32 30	1	10%	$67 188	$73 907	40%	$103 470	$827,758	827 758
				20									
											SUB-TOTAL O & M PLANT LABOR	$7,039,261	7,039,261
												80	80
												$87,990 76	$87 990 76
												$62 850 54	$62 850 54
	SUB-TOTAL 80												

Adjusted for local labor requirements yes=1, no=0	0	Uncorrected	Corrected
TOTAL DIRECT LABOR		$8,459,453	$8,459,453
TOTAL PLANT STAFF.		102	102
AVERAGE COST PER EMPLOYEE:		$82,936	$82,936

FIGURE-26

3/17/2001

II. REPLACEMENT RESERVE

V MISC EXPENSES

WATER & SEWER

Not Included! Building Data Base	GPY	CCF	COST	
WATER	#REF!	#REF!	#REF!	
SEWER	#REF!	#REF!	#REF!	
			#REF!	(1993$)
TOTAL WATER & SEWER			#REF!	(1996$)

INSURANCE

POLICIES	APPROXIMATION	
1 ALL RISK POLICY ($90 MILLION)	$205,035	
BUSINESS INTERUPTION ($15 MILLION)	$60,408	
3 THIRD PARTY LIABILITY	$250,000	
4 POLLUTION LIABILITY ($1 MILLION)	$50,000	
TOTAL INSURANCE	$0	(1993$)
	$0	

PURCHASED POWER

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
HOUSE LOAD	5.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
HOUSE LOAD - KW	20,489	0	0	0	0	0	0	0
HOURS PER YEAR OFF LINE	916.8	0	0	0	0	0	0	0
% OF HOUSE LOAD PURCHASED	10%	0%	0%	0%	0%	0%	0%	0%
POWER COST	0.06	0	0	0	0	0	0	0
ELECTRIC COST	$112,706	$0	$0	$0	$0	$0	$0	$0
DEMAND CHARGE	$100,000	$0	$0	$0	$0	$0	$0	$0
TOTAL ELCTRICITY COST	$212,706	$0	$0	$0	$0	$0	$0	$0

START-UP FUEL

9.484614489

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
APPROXIMATE DAYS OFF LINE	21	0	0	0	0	0	0	0
NUMBER OF STARTS PER YEAR (AVG. 3 DAY Outage)	7	0	0	0	0	0	0	0
GROSS HEAT INPUT OF UNIT (MILLION BTU'S PER HOUR)	3555	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
GHI OF START-UP BURNERS-15% of GHI(MILLION BTU'S PER HOUR)	533.25	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
AVERAGE LENGTH OF START-UP (HOURS)	4	4	4	4	4	4	4	4
HEAT INPUT FROM STARTS	14,931	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
TOTAL MILLION BTU'S REQUIRED FOR START-UP	14,931	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
NATURAL GAS REQUIRED @ $0.20 per Therm	$29,862	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
OIL REQUIRED @ $0.80 per Gallon	$84,715							
Gallons	105,893							

REAL ESTATE TAXES

NOT INCLUDED IN ESTIMATE

WHEELING COST

	Facility C	Facility D
	$1,899,240	$3,311,600
Calculated Value'	1.75198561	2.603019553

FIGURE - 27

3/17/2001

FIGURE·28

This tab is being used to adjust variations in heat rate at partial loads in the performance section of the model

Exhaust Pressure	% Change		
0.5	-3.12%	7746	
1	-1.22%	7897	7993
1.5	0.00%	7995	7995
2	0.93%	8069	8032
2.5	1.68%	8129	8095
3	2.33%	8181	8181
3.5	2.89%	8226	8275
4	3.36%	8264	8376
4.5	3.80%	8299	8472
5	4.20%	8331	8566

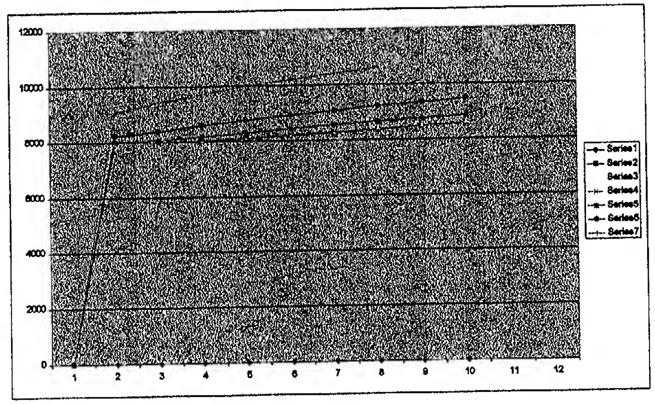
TC2F
Length 26

EXH Pres	[illegible]	[illegible]	100%	75%	50%	25%
1.0	7993	8009	8000	8016	8227	9067
1.5	7995	8017	8009	8073	8395	9414
2.0	8032	8061	8059	8177	8584	9715
2.5	8095	8132	8136	8302	8757	9986
3.0	8181	8225	8230	8427	8917	10194
3.5	8275	8328	8330	8543	9062	10395
4.0	8376	8433		8653	9202	10575
4.5	8472	8532		8757	9334	
5.0	8566	8629		8857	9460	

Flow Rates

Superheater	Reheater	Gen - KW
1,025,000	900,000	156,200

Boiler Feedwater Temperature - F 480
Number of Feedwater Heaters 6



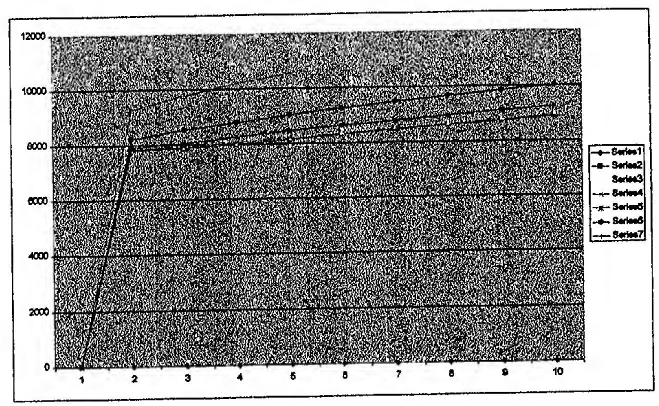
TC2F
Last Stage Bucket Length 30

EXH Pres	[illegible]	[illegible]	100%	75%	50%	25%
1.0	7832	7853	7844	7907	8225	9293
1.5	7884	7915	7918	8068	8531	9790
2.0	7995	8040	8050	8276	8797	10208
2.5	8149	8208	8212	8464	9045	10558
3.0	8312	8376		8636	9272	
3.5	8466	8536		8803	9479	
4.0	8612	8688		8962	9670	
4.5	8757	8841		9112	9844	
5.0	8901	8991		9254	10005	

Flow Rates

Superheater	Reheater	Gen - KW
1,025,000	900,000	156,200

Boiler Feedwater Temperature - F 480
Number of Feedwater Heaters 6



Heat Rates

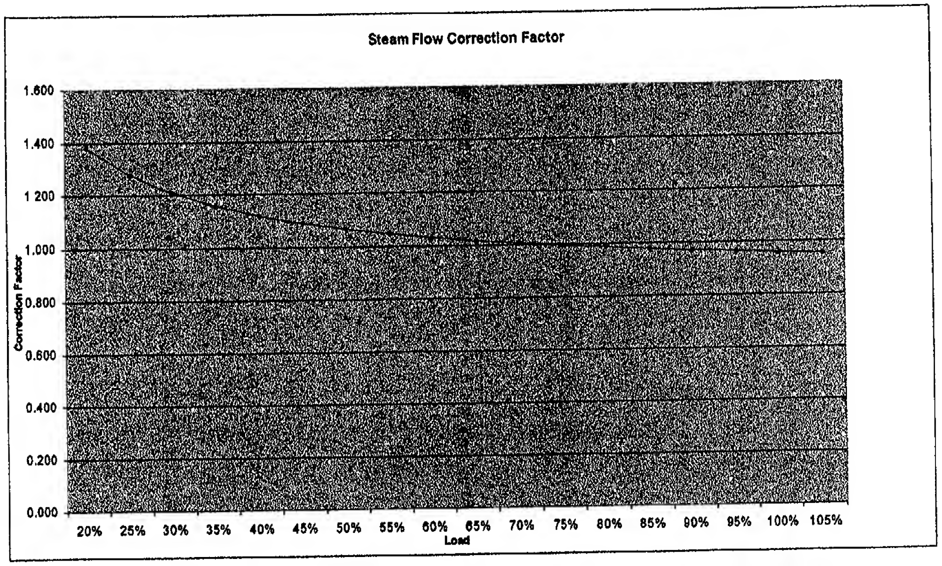
	0.22%	0.28%	0.33%	0.39%	0.44%	0.50%	0.56%	0.61%	0.67%
Load	**20%**	**25%**	**30%**	**35%**	**40%**	**45%**	**50%**	**55%**	**60%**
Test Heat Rates	13,463	12,476	11,827	11,371	11,036	10,782	10,584	10,427	10,301
calc. uncorrected	9,742	9,773	9,805	9,836	9,868	9,900	9,932	9,964	9,997
Steam correction factor	1.382	1.277	1.206	1.156	1.118	1.089	1.066	1.046	1.030
	1.1291239	1.11890487	1.10868585	1.09846682	1.0882478	1.07802877	1.06780975	1.05759072	1.0473717
			-8.80%	-5.24%	-2.77%	-1.03%	0.20%	1.05%	1.62%

	0.72%	0.78%	0.83%	0.89%	0.94%	1.00%	1.06%	1.11%	1.17%
Load	**65%**	**70%**	**75%**	**80%**	**85%**	**90%**	**95%**	**100%**	**105%**
Test Heat Rates	10,198	10,114	10,045	9,988	9,941	9,902	9,870	9,844	9,823
calc. uncorrected	10,030	10,063	10,096	10,130	10,163	10,197	10,231	10,266	10,300
Steam correction factor	1.017	1.005	0.995	0.986	0.978	0.971	0.965	0.959	0.954
	1.03715267	1.02693365	1.01671462	1.0064956	0.99627657	0.98605755	0.97583852	0.9656195	0.95540047
	1.97%	2.13%	2.14%	2.04%	1.82%	1.52%	1.14%	0.70%	0.18%

Check	**20%**	**25%**	**30%**	**35%**	**40%**	**45%**	**50%**	**55%**	**60%**
200 MW Tandem Compound		9,650					8,523		
350 MW Tandem Compound		10,143					8,712		
400 MW Tandem Compound		10,225					8,767		
600 MW Tandem Compound		9,994					8,500		

Check	**65%**	**70%**	**75%**	**80%**	**85%**	**90%**	**95%**	**100%**	**105%**
200 MW Tandem Compound			8,133					8,036	8,010
350 MW Tandem Compound			8,189					7,955	7,906
400 MW Tandem Compound			8,210					7,964	7,911
600 MW Tandem Compound			8,009					7,872	7,848

-0.0817522
0.00444444
1.17



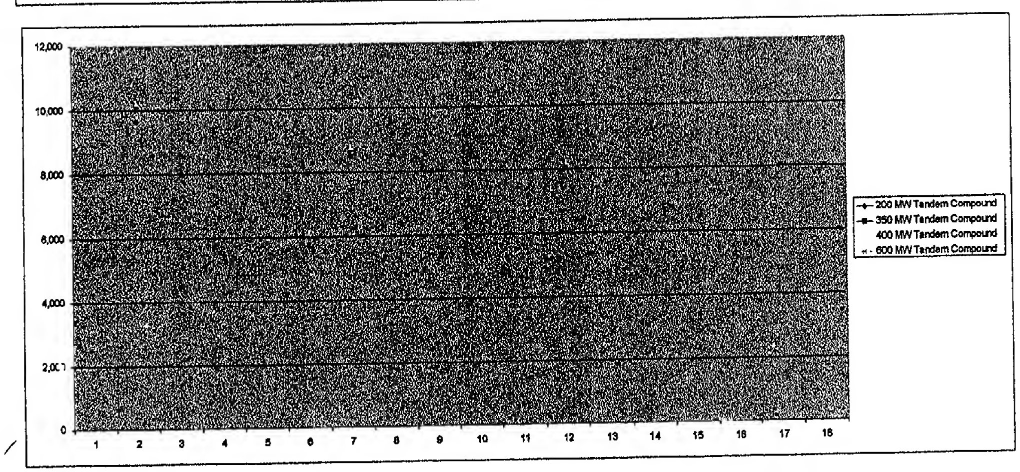


FIGURE. 29

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

FIGURE-30

IE Dispatch Information: For Reference Only	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Average Annual Capacity: 373																				
Capacity Factor	83.70%	85.00%	71.30%	69.60%	67.50%	68.10%	67.10%	68.00%	67.90%	67.80%	68.20%	67.90%	67.00%	67.60%	66.60%	67.10%	66.60%	67.20%	67.30%	67.40%
Calculated Capacity Factor	89.53%	77.10%	87.78%	88.03%	87.78%	87.78%	87.78%	77.34%	87.78%	87.78%	87.78%	88.03%	87.78%	77.10%	87.78%	88.03%	87.78%	87.78%	87.78%	77.34%
Availability	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%
Average Load	93.00%	94.44%	79.22%	77.33%	75.00%	75.67%	74.56%	75.56%	75.44%	75.33%	75.78%	75.44%	74.44%	75.11%	74.00%	74.56%	74.00%	74.67%	74.78%	74.89%
Hours in Year	8,760	8,760	8,784	8,760	8,760	8,760	8,784	8,760	8,760	8,760	8,784	8,760	8,760	8,760	8,784	8,760	8,760	8,760	8,784	8,760
Hours Dispatched	7,884	7,884	7,906	7,884	7,884	7,884	7,906	7,884	7,884	7,884	7,906	7,884	7,884	7,884	7,906	7,884	7,884	7,884	7,906	7,884
Annual Output	2,731,405	2,773,829	2,333,127	2,271,276	2,202,746	2,222,326	2,195,692	2,219,063	2,215,800	2,212,536	2,231,687	2,215,800	2,186,430	2,206,010	2,179,331	2,189,693	2,173,376	2,192,956	2,202,237	2,199,483
Calculated Annual Output	2,921,796	2,515,870	2,864,503	2,872,651	2,864,503	2,864,503	2,864,503	2,524,019	2,864,503	2,864,503	2,864,503	2,872,651	2,864,503	2,515,870	2,864,503	2,872,651	2,864,503	2,864,503	2,864,503	2,524,019

Major Outages	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
		1						1						1						1	

Hours Available for Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
January	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744
February	672	672	672	696	672	672	672	696	672	672	672	696	672	672	672	696	672	672	672	696	672
March	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
April	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
May	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744
June	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
July	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744
August	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744
September	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
October	744	0	744	744	744	744	744	0	744	744	744	744	744	0	744	744	744	744	744	0	744
November	720	456	720	720	720	720	720	456	720	720	720	720	720	456	720	720	720	720	720	456	720
December	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744	744
Total	8256	7248	8256	8280	8256	8256	8256	7272	8256	8256	8256	8280	8256	7248	8256	8280	8256	8256	8256	7272	8256

Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
January	744	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692
February	672	625	625	647	625	625	625	647	625	625	625	647	625	625	625	647	625	625	625	647	625
March	240	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226	226
April	720	677	677	677	677	677	677	677	677	677	677	677	677	677	677	677	677	677	677	677	677
May	744	707	707	707	707	707	707	707	707	707	707	707	707	707	707	707	707	707	707	707	707
June	720	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684
July	744	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714
August	744	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714	714
September	720	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684	684
October	744	0	707	707	707	707	707	0	707	707	707	707	707	0	707	707	707	707	707	0	707
November	720	429	677	677	677	677	677	429	677	677	677	677	677	429	677	677	677	677	677	429	677
December	744	699	699	699	699	699	699	699	699	699	699	699	699	699	699	699	699	699	699	699	699
Total Hours Dispached	8256	6851	7806	7828	7806	7806	7806	6873	7806	7806	7806	7828	7806	6851	7806	7828	7806	7806	7806	6873	7806
Percentage of Available Hours	100.00%	94.52%	94.54%	94.54%	94.54%	94.54%	94.54%	94.51%	94.54%	94.54%	94.54%	94.54%	94.54%	94.52%	94.54%	94.54%	94.54%	94.54%	94.54%	94.51%	94.54%
Percentage of Annual Hours	94.25%	78.20%	89.10%	89.11%	89.10%	89.10%	89.10%	78.24%	89.10%	89.10%	89.10%	89.11%	89.10%	78.20%	89.10%	89.11%	89.10%	89.10%	89.10%	78.24%	89.10%
Average Annual Load	95.00%	98.58%	98.51%	98.51%	98.51%	98.51%	98.51%	98.58%	98.51%	98.51%	98.51%	98.51%	98.51%	98.58%	98.51%	98.51%	98.51%	98.51%	98.51%	98.58%	98.51%

TO2FHO" E2BEE8GO

FIGURE - 31

Unit 1 Gross Capacity: 373

Unit 1 Dispatch Information:	January-01	February-01	March-01	April-01	May-01	June-01	July-01	August-01	September-01	October-01	November-01	December-01		2001
Hours Available for Dispatch	744	672	240	720	744	720	744	744	720	744	720	744	Gross Capacity Factor:	89.53%
Percentage of Hours Dispatched	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%		
Average Dispached Load	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%		
Fuel Fired tons/hr	195.86	195.86	195.86	195.86	195.86	195.86	195.86	195.86	195.86	195.86	195.86	195.86	Fuel Fired tons/hr	2,350.29
tons	145,718	131,616	47,006	141,018	145,718	141,018	145,718	145,718	141,018	145,718	141,018	145,718	tons	1,617,002
Total Ash (100% up) - tons	8,015	7,239	2,585	7,756	8,015	7,756	8,015	8,015	7,756	8,015	7,756	8,015	Total Ash (100% up) - tons	88,935
Total Limestone (100% up) - tons	2,160	1,951	697	2,090	2,160	2,090	2,160	2,160	2,090	2,160	2,090	2,160	Total Limestone - tons	23,964
Total Flyash/Limestone Load - tons	10,174	9,189	3,282	9,846	10,174	9,846	10,174	10,174	9,846	10,174	9,846	10,174	Total Flyash/Limestone Load - tons	112,899
Heat Rate Information:														
Gross Generation	263,301,377	237,820,598	84,935,928	254,807,784	263,301,377	254,807,784	263,301,377	263,301,377	254,807,784	263,301,377	254,807,784	263,301,377	Gross Generation	2,921,795,923
Unit1 Gross Heat Rate - BTU/kWh	9,408	9,408	9,408	9,408	9,408	9,408	9,408	9,408	9,408	9,408	9,408	9,408	Unit1 Gross Heat Rate - BTU/kWh:	9,408
Net Generation	248,819,801	224,740,465	80,264,452	240,793,356	248,819,801	240,793,356	248,819,801	248,819,801	240,793,356	248,819,801	240,793,356	248,819,801	Net Generation	2,761,097,147
Plant Net Heat Rate - BTU/kWh.	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	9,956	Plant Net Heat Rate - BTU/kWh:	9,956
Unit 1 Dispatch Information:	January-02	February-02	March-02	April-02	May-02	June-02	July-02	August-02	September-02	October-02	November-02	December-02		2002
Hours Available for Dispatch	744	672	240	720	744	720	744	744	720	0	456	744	Gross Capacity Factor:	77.10%
Percentage of Hours Dispatched	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%	96.00%	95.00%	95.00%	94.00%	94.00%		
Average Dispached Load	98.00%	98.00%	97.00%	98.00%	98.00%	99.00%	100.00%	100.00%	99.00%	98.00%	98.00%	98.00%		
Fuel Fired tons/hr	202.48	202.48	200.27	202.48	202.48	204.69	206.90	206.90	204.69	202.48	202.48	202.48	Fuel Fired tons/hr	2,440.77
tons	140,097	128,539	45,180	137,035	143,110	140,006	147,777	147,777	140,006	0	86,789	141,603	tons	1,395,919
Total Ash (100% up) - tons	7,705	6,960	2,485	7,537	7,871	7,700	8,128	8,128	7,700	0	4,773	7,788	Total Ash (100% up) - tons	76,776
Total Limestone (100% up) - tons	2,232	2,016	712	2,160	2,232	2,184	2,281	2,281	2,184	0	1,368	2,232	Total Limestone - tons	21,886
Total Flyash/Limestone Load - tons	9,938	8,976	3,197	9,697	10,104	9,884	10,409	10,409	9,884	0	6,142	10,021	Total Flyash/Limestone Load - tons	98,661
Heat Rate Information:														
Gross Generation	252,603,026	228,157,572	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970	266,072,970	252,259,706	0	156,485,954	255,319,188	Gross Generation	2,515,870,136
Unit1 Gross Heat Rate - BTU/kWh.	9,428	9,428	9,422	9,428	9,428	9,435	9,442	9,442	9,435	#DIV/0!	9,428	9,428	Unit1 Gross Heat Rate - BTU/kWh:	9,432
Net Generation	238,709,860	215,608,906	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957	251,438,957	238,385,422	0	147,879,226	241,276,632	Net Generation	2,377,497,279
Plant Net Heat Rate - BTU/kWh	9,977	9,977	9,970	9,977	9,977	9,984	9,991	9,991	9,984	#DIV/0!	9,977	9,977	Plant Net Heat Rate - BTU/kWh:	9,981
Unit 1 Dispatch Information:	January-03	February-03	March-03	April-03	May-03	June-03	July-03	August-03	September-03	October-03	November-03	December-03		2003
Hours Available for Dispatch	744	672	240	720	744	720	744	744	720	744	720	744	Gross Capacity Factor:	87.76%
Percentage of Hours Dispatched	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%	96.00%	95.00%	95.00%	94.00%	94.00%		
Average Dispached Load	98.00%	98.00%	97.00%	98.00%	98.00%	99.00%	100.00%	100.00%	99.00%	98.00%	98.00%	98.00%		
Fuel Fired tons/hr	202.48	202.48	200.27	202.48	202.48	204.69	206.90	206.90	204.69	202.48	202.48	202.48	Fuel Fired tons/hr	2440.77
tons	140,097	126,539	45,180	137,035	143,110	140,006	147,777	147,777	140,006	143,110	137,035	141,603	tons	1,589,275
Total Ash (100% up) - tons	7,705	6,960	2,485	7,537	7,871	7,700	8,128	8,128	7,700	7,871	7,537	7,788	Total Ash (100% up) - tons	87,410
Total Limestone (100% up) - tons	2,232	2,016	712	2,160	2,232	2,184	2,281	2,281	2,184	2,232	2,160	2,232	Total Limestone - tons	24,910
Total Flyash/Limestone Load - tons	9,938	8,976	3,197	9,697	10,104	9,884	10,409	10,409	9,884	10,104	9,697	10,021	Total Flyash/Limestone Load - tons	112,321
Heat Rate Information:														
Gross Generation	252,603,026	228,157,572	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970	266,072,970	252,259,706	258,035,349	247,083,085	255,319,188	Gross Generation	2,864,502,616
Unit1 Gross Heat Rate - BTU/kWh:	9,428	9,428	9,422	9,428	9,428	9,435	9,442	9,442	9,435	9,428	9,428	9,428	Unit1 Gross Heat Rate - BTU/kWh:	9,432
Net Generation	238,709,860	215,608,906	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957	251,438,957	238,385,422	243,843,405	233,493,515	241,276,632	Net Generation	2,706,954,973
Plant Net Heat Rate - BTU/kWh	9977	9977	9970	9977	9977	9984	9991	9991	9984	9977	9977	9977	Plant Net Heat Rate - BTU/kWh:	9981
Unit 1 Dispatch Information:	January-04	February-04	March-04	April-04	May-04	June-04	July-04	August-04	September-04	October-04	November-04	December-04		2004
Hours Available for Dispatch	744	696	240	720	744	720	744	744	720	744	720	744	Gross Capacity Factor:	88.03%
Percentage of Hours Dispatched	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%	96.00%	95.00%	95.00%	94.00%	94.00%		
Average Dispached Load	98.00%	98.00%	97.00%	98.00%	98.00%	99.00%	100.00%	100.00%	99.00%	98.00%	98.00%	98.00%		
Fuel Fired tons/hr	202.48	202.48	200.27	202.48	202.48	204.69	206.90	206.90	204.69	202.48	202.48	202.48	Fuel Fired tons/hr	2440.77
tons	140,097	131,058	45,180	137,035	143,110	140,006	147,777	147,777	140,006	143,110	137,035	141,603	tons	1,593,794
Total Ash (100% up) - tons	7,705	7,208	2,485	7,537	7,871	7,700	8,128	8,128	7,700	7,871	7,537	7,788	Total Ash (100% up) - tons	87,659
Total Limestone (100% up) - tons	2,232	2,088	712	2,160	2,232	2,184	2,281	2,281	2,184	2,232	2,160	2,232	Total Limestone - tons	24,982
Total Flyash/Limestone Load - tons	9,938	9,297	3,197	9,697	10,104	9,884	10,409	10,409	9,884	10,104	9,697	10,021	Total Flyash/Limestone Load - tons	112,641
Heat Rate Information:														
Gross Generation	252,603,026	236,306,057	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970	266,072,970	252,259,706	258,035,349	247,083,085	255,319,188	Gross Generation	2,872,651,101
Unit1 Gross Heat Rate - BTU/kWh	9428	9428	9422	9428	9428	9435	9442	9442	9435	9428	9428	9428	Unit1 Gross Heat Rate - BTU/kWh:	9432
Net Generation	238,709,860	223,309,224	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957	251,438,957	238,385,422	243,843,405	233,493,515	241,276,632	Net Generation	2,714,655,291
Plant Net Heat Rate - BTU/kWh	9977	9977	9970	9977	9977	9984	9991	9991	9984	9977	9977	9977	Plant Net Heat Rate - BTU/kWh:	9981
Unit 1 Dispatch Information:	January-05	February-05	March-05	April-05	May-05	June-05	July-05	August-05	September-05	October-05	November-05	December-05		2005
Hours Available for Dispatch	744	672	240	720	744	720	744	744	720	744	720	744	Gross Capacity Factor:	87.76%
Percentage of Hours Dispatched	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%	96.00%	95.00%	95.00%	94.00%	94.00%		
Average Dispached Load	98.00%	98.00%	97.00%	98.00%	98.00%	99.00%	100.00%	100.00%	99.00%	98.00%	98.00%	98.00%		
Fuel Fired tons/hr	202.48	202.48	200.27	202.48	202.48	204.69	206.90	206.90	204.69	202.48	202.48	202.48	Fuel Fired tons/hr	2440.77
tons	140,097	126,539	45,180	137,035	143,110	140,006	147,777	147,777	140,006	143,110	137,035	141,603	tons	1,589,275
Total Ash (100% up) - tons	7,705	6,960	2,485	7,537	7,871	7,700	8,128	8,128	7,700	7,871	7,537	7,788	Total Ash (100% up) - tons	87,410
Total Limestone (100% up) - tons	2,232	2,016	712	2,160	2,232	2,184	2,281	2,281	2,184	2,232	2,160	2,232	Total Limestone - tons	24,910
Total Flyash/Limestone Load - tons	9,938	8,976	3,197	9,697	10,104	9,884	10,409	10,409	9,884	10,104	9,697	10,021	Total Flyash/Limestone Load - tons	112,321
Heat Rate Information:														
Gross Generation	252,603,026	228,157,572	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970	266,072,970	252,259,706	258,035,349	247,083,085	255,319,188	Gross Generation	2,864,502,616
Unit1 Gross Heat Rate - BTU/kWh.	9428	9428	9422	9428	9428	9435	9442	9442	9435	9428	9428	9428	Unit1 Gross Heat Rate - BTU/kWh:	9432
Net Generation	238,709,860	215,608,906	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957	251,438,957	238,385,422	243,843,405	233,493,515	241,276,632	Net Generation	2,706,954,973
Plant Net Heat Rate - BTU/kWh	9977	9977	9970	9977	9977	9984	9991	9991	9984	9977	9977	9977	Plant Net Heat Rate - BTU/kWh:	9981

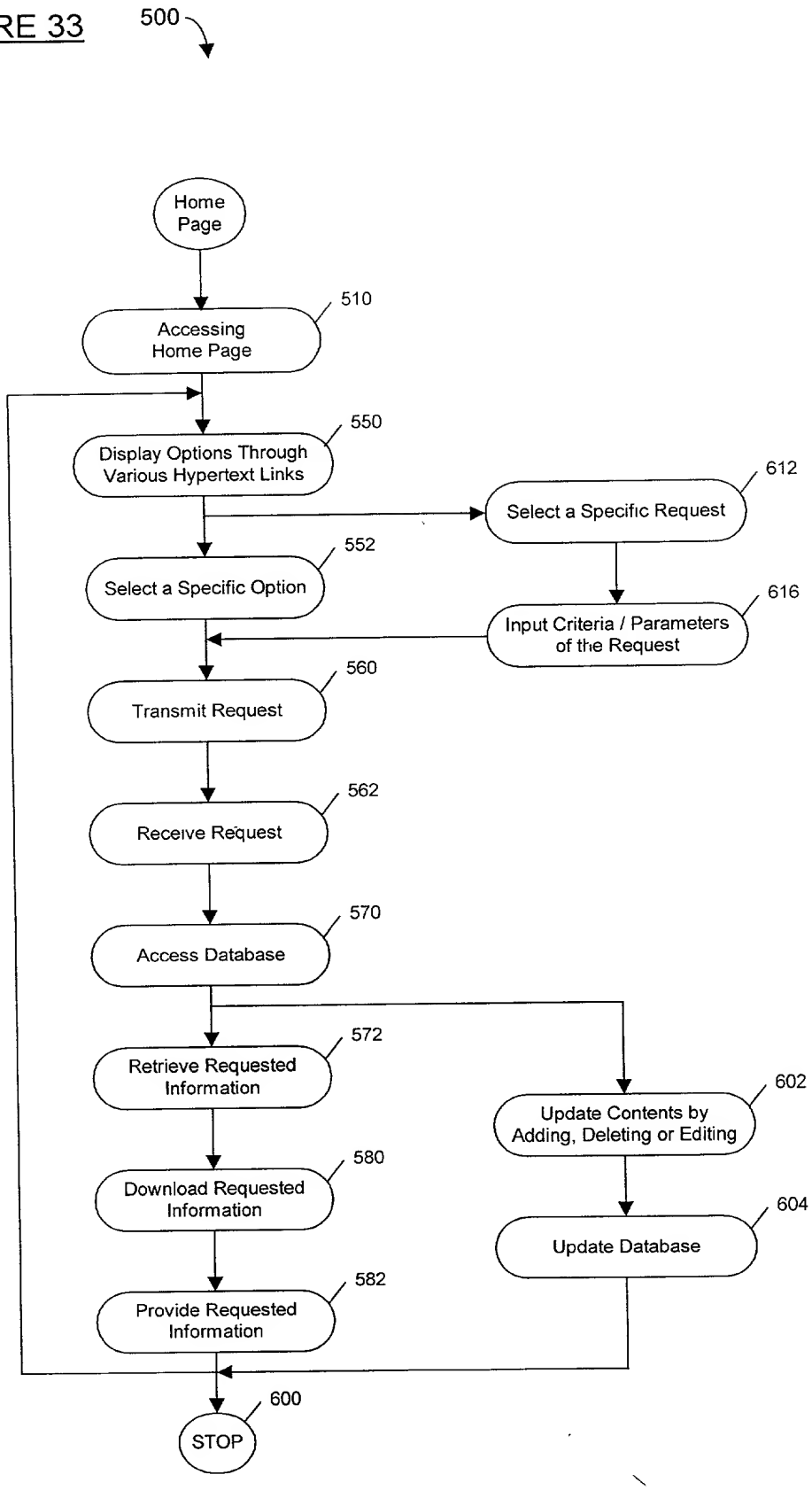
Assumed Tax (per ton of Carbon):	$40

		Sub-Bituminous
Facility Net Heat Rate (HHV):	BTU/KWH	9,956
HHV of Coal:	BTU/#	8,500
Percent Carbon in Coal (WT)		48.30%
Unit Capacity:	MW	373
Carbon Loss:		0.25%
Molecular Weight of Carbon		12.01
Molecular Weight of O2		32.00
Price per MMBtu from Coal		1.11
Price per Ton of Coal (delivered)	per Ton	$30.00
Net KWH Produced:		2,761,097,147
Coal Fired	Tons	1,617,002
Carbon in Flue Gas	Tons	781,012
CO2	Tons	2,861,804
Fuel Cost:	Total	$48,631,344
	$/kwh	$0.0176
	Carbon Tax:	**$31,240,484**
	per KWH	**$0.0113**
	per MMBtu	**$1.14**

Tons CO2/kWh 0.001036473

FIGURE - 32

FIGURE 33


500
Home Page
510
Accessing Home Page
550
Display Options Through Various Hypertext Links
612
Select a Specific Request
552
Select a Specific Option
616
Input Criteria / Parameters of the Request
560
Transmit Request
562
Receive Request
570
Access Database
572
Retrieve Requested Information
602
Update Contents by Adding, Deleting or Editing
580
Download Requested Information
604
Update Database
582
Provide Requested Information
600
STOP